

# ANNOTATED CHECKLIST OF THE VASCULAR FLORA OF THE LANCE ROSIER UNIT OF THE BIG THICKET NATIONAL PRESERVE, HARDIN COUNTY, TEXAS

Larry E. Brown

Houston Community College  
1300 Holman  
Houston, Texas 77004, U.S.A.  
and  
Herbarium, Spring Branch Science Center  
8856 Westview Drive  
Houston, Texas 77055, U.S.A.

Paul A. Harcombe,  
Warren W. Pruess, I. Sandra Elsik

Department of Ecology and Evolutionary Biology  
Rice University  
Houston, Texas 77005, U.S.A.

Barbara R. MacRoberts  
and Michael H. MacRoberts

Bog Research  
740 Columbia  
Shreveport, Louisiana 71104, U.S.A.  
and  
Herbarium, Museum of Life Sciences  
Louisiana State University in Shreveport  
Shreveport, Louisiana, 71115, U.S.A.

Stanley D. Jones

Herbarium, Botanical Research Center  
P.O. Box 6717  
Bryan, Texas 77805, U.S.A.

## ABSTRACT

An annotated, vouchered checklist is provided of the vascular plant taxa of the 10,100 hectare Lance Rosier Unit, Big Thicket National Preserve, Hardin County, in southeastern Texas. Documented for the unit are 694 taxa of which 71 (10%) are exotics.

## RESUMEN

Se aporta un catálogo con comentarios y pliegos testigo de los táxones de plantas vasculares de las 10,100 hectáreas de la reserva Lance Rosier Unit, Big Thicket National Preserve, del condado de Hardin, en el sureste de Texas. Se documentan para la unidad 694 táxones de los que 71 (10%) son exóticos.

## INTRODUCTION

This is the fourth part of an inventory, based upon available voucher specimens, of the vascular flora of the Big Thicket National Preserve, in southeastern Texas. In three previous papers, we provided an annotated checklist of the Hickory Creek, Turkey Creek, and Big Sandy Creek units (MacRoberts et al. 2002; Brown et al. 2005; Brown et al. 2006). In this paper, we provide an annotated checklist of the Lance Rosier Unit.

## SITE AND METHODS

The Big Thicket is located mostly within the longleaf pine region of the West Gulf Coastal Plain in southeastern Texas (Parks & Cory 1936; McLeod 1971; Harcombe & Marks 1979; Marks & Harcombe 1981; Harcombe et al. 1993). The Big Thicket National Preserve consists of 12 units scattered over seven Texas counties. The units range from 222 to 10,100 hectares and total about 34,000 hectares (Peacock 1994). The Lance Rosier Unit consists of 10,100 hectares and is located in southern Hardin County (Fig. 1). It is relatively flat with poor drainage over most of the area. Elevation ranges from about 14 to 30 meters. The Little Pine Island Bayou runs through its western and southern sections. The Lance

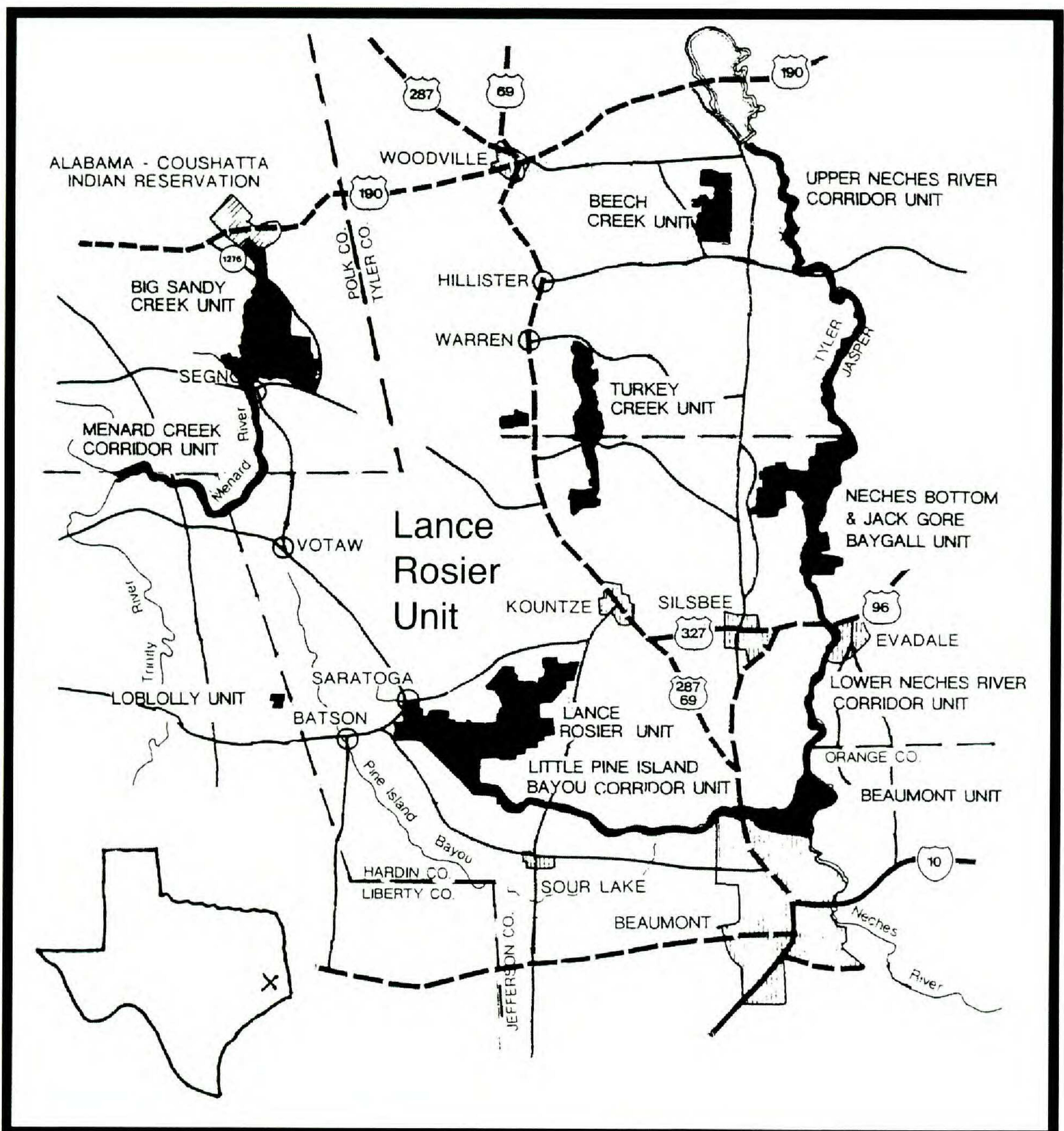


FIG. 1. Location of the Lance Rosier Unit, Big Thicket National Preserve, Texas.

Rosier Unit was chosen for inclusion in the Big Thicket National Preserve because of its wide range of plant communities (Ajilvsgi 1979; Harcombe & Marks 1979; Watson 1979; Harcombe & Marks 1981; MacRoberts & MacRoberts 1998). It is dominated by lower-slope hardwood pine forest and wetland pine savanna, but also has flatland hardwood forest, floodplain hardwood forest, and baygall thicket (Harcombe & Marks 1979; Marks & Harcombe 1981). Mima mounds are common in the wetland pine savanna sections. Fire suppression over the past 30 years has resulted in extensive midstory development and shading out of herbaceous vegetation. A map of community types can be found in Harcombe and Marks (1979), and details regarding soils, topography, and climate can be found in Deshotels (1978), Watson (1979, 1982), Harcombe and Marks (1979), and Marks and Harcombe (1981).

Like all units of the Big Thicket National Preserve, the Lance Rosier Unit had not previously been the subject of a detailed floristic inventory.

Larry Brown collected about 750 specimens during 15 field days beginning May 23, 2004 and ending May 14, 2006.

The MacRoberts' collected 73 specimens during a study of wetland pine savanna in 1997 and 1998. Stanley Jones collected 317 specimens during 2002 and 2003. Geraldine Watson collected 87 specimens over several years in the late 1970s and early 1980s. Other collectors (Sandi Elsik, Warren Pruess, William Carr, Paul Harcombe, Donna Streng, C. Liu, and Eric Keith) gathered 198 specimens. A search of the on line TAMU herbarium consortium database found some collections at TEX which were annotated and added to the list.

Because our purpose is to produce a list of taxa known to occur on the Lance Rosier Unit, a vouchered specimen was considered to be the only evidence acceptable for inclusion in the list. In all, more than 1331 herbarium specimens form the data for this report. All specimens at Rice University have been annotated by Larry Brown. A complete set of these mounted specimens are to be donated to TAES, the Tracy Herbarium, at Texas A&M University. Duplicates collections will be distributed to other herbaria.

In most cases, nomenclature follows Jones et al. (1997) and Kartesz and Meacham (1999). For *Dichanthelium* we followed a pre-publication key in Diggs et al. (2006). Some recent literature sources were followed, especially some nomenclature in the published Flora of North America volumes. In cases of multiple collections, no more than four are listed for each taxon.

## RESULTS

The following is an annotated list of the Lance Rosier Unit taxa. Abbreviations used are given below.

**CL** = C. Liu. His specimens are at Rice University.

**DS** = Donna Streng. Her collections are at Rice University.

**DW** = David Wolf. His one specimen is at TEX.

**EK** = Eric Keith. His collections are at Rice University.

**GW** = Geraldine Watson. Her specimens are at Rice University.

**LB** = Larry Brown. His specimens are at Rice University except for those few at SBSC.

**MM** = Barbara and Michael MacRoberts. Their specimens are at TEX, VDB, and BRIT. Also, as noted, one or two are at SBSC.

**PH** = Paul Harcombe. His collections are at Rice University

**RJ** = Ray Jordan. His collections are at TEX.

**SEWP** = Sandra Elsik and Warren Pruess. Their specimens are at Rice University.

**SJ** = Stanley Jones. His specimens are at Rice University.

**WRC** = William Carr. His specimens are at TEX.

\* = exotic

+ = see note at end of list.

### ACANTHACEAE

*Justicia ovata* (Walter) Lindau var. *Lanceolada* (Chapm.)

R.W. Long, LB 30165; SEEKWP 3100

*Ruellia carolinensis* (J.F.Gmel.) Steud, LB 30574; SEEKWP 3098

*Ruellia humilis* Nutt., SJ 14095, 14069; LB 30030

### ACERACEAE

*Acer rubrum* L., SJSEWP, 15042, 15041; LB 30287

### AGAVACEAE

*Manfreda virginica* (L.) Salisb. ex Rose, LB 31083

**ALISMATACEAE**

*Sagittaria papillosa* Buchenau, LB 29375, 29363, 30041;  
SJ 13757

*Sagittaria platyphylla* (Engelm.) J.G. Sm., LB 30170

**ANACARDIACEAE**

*Rhus copallinum* L., SJ 13762; LB 29863

*Toxicodendron radicans* (L.) Kuntze, LB 29837, SEWP  
3053

**ANNONACEAE**

*Asimina parviflora* (Michx.) Dunal, SJ 13806; LB 31181

**APIACEAE**

*Centella erecta* (L.f.) Fernald, SJ 17780

*Chaerophyllum tainturieri* Hook. var. *tainturieri*, LB 30407;  
SJSEWP 15085

*Cicuta maculata* L., LB 30666; SJ 14091

\**Cyclospermum leptophyllum* (Pers.) Sprague ex Britton & Wilson, LB 30596

*Eryngium integrifolium* Walter, LB 30231, 30101, 30596,  
30697

*Eryngium prostratum* Nutt. ex DC, LB 30587; SJ 13906

*Hydrocotyle verticillata* Thunb., LB 30069

*Oxypolis filiformis* (Walter) Britton, LB 30733, 30016; MM  
3478; WRC 17231

*Ptilimnium capillaceum* (Michx.) Raf., LB 29344; SEEKWP  
3094

*Ptilimnium costatum* (Elliott) Raf., LB 30254

*Sanicula canadensis* L., LB 29915; SJ 14073; GW 3102

**APOCYNACEAE**

*Trachelospermum difforme* (Walter) A. Gray, LB 30246

**AQUIFOLIACEAE**

*Ilex ambigua* (Michx.) Torr., SJ 14048

*Ilex coriacea* (Pursh) Chapm., LB 30678, 30111a; SJ  
13866, 13773

*Ilex decidua* Walter, LB 29329; SJ 14242

*Ilex longipes* Chapman, LB 31056

*Ilex opaca* Soland., LB 29838; SJ 13776

*Ilex vomitoria* Aiton, LB 29983; SJ 13759

**ARACEAE**

*Arisaema triphyllum* (L.) Schott, SJ 13843

**ARALIACEAE**

*Aralia spinosa* L., LB 29854a

**ARECACEAE**

*Sabal minor* (Jacq.) Pers., SJ 14022; LB 30037

**ARISTOLOCHIACEAE**

*Aristolochia serpentaria* L., GW 156-2

**ASCLEPIADACEAE**

*Asclepias longifolia* Michx. subsp. *longifolia*, SJ 13992;  
LB 29379; MM 3874

*Asclepias perennis* Walter, LB 29929; SEEKWP 3104

*Asclepias variegata* L., LB 30055

*Matelea gonocarpos* (Walter) Shinners, LB 30592, 29862;  
SJ 14243

**ASPLENIACEAE**

*Asplenium platyneuron* (L.) Britton, Sterns & Poggenb.,  
LB 29910; SJ 13848, 14178

**ASTERACEAE**

*Acmeilla oppositifolia* (Lamarck) R.J. Jansen var. *repens*  
(Walter) R.J. Jansen, LB 29919; SJ 14245

*Ageratina altissima* (L.) King & H.E. Rob., GW 2006

*Ambrosia artemisiifolia* L., LB 30044, 30872

*Ambrosia psilostachya* DC., WP 068; LB 30872, 30891

*Ambrosia trifida* L., LB 30066

*Amphiachyris dracunculoides* (DC.) Nutt., GW 3142

*Arnoglossum ovatum* (Walter) H.E. Rob., SEEKWP 3115;  
SJ 14513

*Baccharis halimifolia* L., GW 3150

*Bidens aristosa* (Michx.) Britton, LB 30141, 29397; SJ  
14084; GW 3083

*Bidens bipinnata* L., GW 3136, 3149

*Bidens frondosa* L., LB 30224, 30213; GW 1742

*Boltonia diffusa* Elliott, LB 29998, 30018; MM 3652; SJ  
14027

*Chaptalia tomentosa* Vent., MM 3733; LB 31058

*Chloracantha spinosa* (Benth.) Nesom, GW 3409

*Cirsium horridulum* Michx., LB 30391, 30617; SEWP 3052

*Conoclinium coelestinum* (L.) DC., SJ 14088

*Conyza canadensis* (L.) Cronquist var. *canadensis*,  
SJSEWP 15090

*Conyza canadensis* (L.) Cronquist var. *glabrata* (A. Gray)  
Cronquist, LB 30068

+*Coreopsis gladiata* Walter, LB 30229, 30901; MM 3662;  
CL 901127

+*Echinacea pallida* (Nutt.) Nutt. var. *sanguinea* (Nutt.)  
Gandhi & R.D.Thomas, SJ 14098

*Eclipta prostrata* (L.) L., LB 30158

*Elephantopus carolinianus* Raeusch., LB 30053

*Elephantopus nudatus* A. Gray, LB 30239, 30772; GW  
2412

*Elephantopus tomentosus* L., LB 30060, 30050; 30049; WP  
069a

*Erechtites hieraciifolia* (L.) Raf. ex DC., LB 29940; SJ 13890

*Erigeron philadelphicus* L., SJSEWP 15093

*Erigeron procumbens* (Houst. ex Mill.) Nesom, WP 088

*Erigeron strigosus* Muhl. ex Willd., SJ 13819

*Erigeron tenuis* Torr. & A. Gray, SEWP 3073

*Eupatorium capillifolium* (Small) Lam., LB 30193; WP 070

*Eupatorium hyssopifolium* L., LB 30735, 30257; RJ s.n.

*Eupatorium leucolepis* (DC.) Torr. & A. Gray, MM 3641

*Eupatorium mohrii* Greene, LB 30897; PH 901146

*Eupatorium perfoliatum* L., LB 30635, 29368

*Eupatorium rotundifolium* L., LB 29361

+*Eupatorium semiserratum* DC., LB 30166, 29979; RJ s.n.

*Eupatorium serotinum* Michx., LB 30142; RJ s.n.

*Eurybia hemispherica* (Alexander) Nesom, LB 30120

*Euthamia leptocephala* (Torr. & A. Gray) Greene ex Porter & Britton, LB 29847, 30143; GW 3139

*Gaillardia pulchella* Foug. var. *pulchella*, LB 30625, 29854; SJ 14232  
*Gamochaeta coarctata* (Willd.) Kerguelen, LB 30623, 30397  
*Gamochaeta pensylvanica* (Willd.) Cabrera, LB 30601, 31229  
*Gamochaeta purpurea* (L.) Cabrera, LB 30398, 30590; SEWP 3058; SJ 14264  
*Helenium amarum* (Raf.) H. Rock var. *amarum*, LB 29887, 29878; SJSEWP 15048  
*Helenium drummondii* H. Rock, SJ 13787; MM 3784, 3786  
*Helenium flexuosum* Raf., LB 29957, 30059; SJ 14170; GW 3101  
*Helianthus angustifolium* L., MM 3735; CL 901125  
*Heterotheca subaxillaris* (Lam.) Britton & Rusby, LB 30194, SJ 14240  
*Hieracium gronovii* L., LB 30720  
\**Hypochaeris microcephala* (Sch. Bip.) Cabrera var. *albiflora* (Kuntze) Cabrera, SJ 13932  
*Iva angustifolia* Nutt. ex DC., LB 30071  
*Iva annua* L., WP 062; LB 30249, 30249a  
*Krigia wrightii* (A. Gray) K.L. Chambers ex K.J. Kim, LB 31165  
*Liatris acidota* Engelm. & A. Gray, LB 29996; WRC 17233; MM 4005; SJ 14295  
*Liatris pycnostachya* Michx., MM 3648b; LB 30238, 30232  
*Marshallia graminifolia* (Walter) Small L.E. Watson, LB 30008; MM 3378; WRC 10838  
*Mikania scandens* (L.) Willd., LB 30149, 29976  
*Pityopsis graminifolia* (Michx.) Nutt., LB 30118; WP 059  
+*Pluchea baccharis* (Mill.) Pruski, LB 29871, 30692; WRC 17707  
*Pluchea camphorata* (L.) DC., LB 30183, 30058  
*Pluchea foetida* (L.) DC., LB 29848; SJ 14511  
*Pseudognaphalium obtusifolium* (L.) Hillard & Burtt, LB 30076  
*Pyrrhopappus carolinianus* (Walter) DC., SEEKWP 3074; LB 29864, 29376  
*Pyrrhopappus pauciflorus* (D. Don) DC., GW 2004; LB 31158  
*Rudbeckia hirta* L., LB 30652  
*Rudbeckia texana* (Perdue) P.Cox & Urbatsch, LB 30582; SEEKWP 3106  
*Silphium gracile* A. Gray, CL 901124  
*Smallanthus uvedalia* (L.) Mack. ex Small, LB 31054  
*Solidago canadensis* L. var. *scabra* Torr. & A. Gray, LB 30139  
*Solidago odora* Aiton var. *odora*, LB 30255, 30221; WP 061  
*Solidago rugosa* Mill. subsp. *asper* (Aiton) Cronquist, LB 29988  
*Solidago rugosa* Mill. subsp. *rugosa*, LB 30140, 30884  
*Solidago sempervirens* L. var. *mexicana* (L.) Fernald, LB 30191; GW 3462  
*Solidago tortifolia* Elliott, RJ s.n.

\**Soliva sessilis* Ruiz & Pavon., SEEKWP 3077; LB 31168  
\**Soliva anthemifolia* (Jussieu) Sweet, LB 31233  
\**Sonchus asper* (L.) Hill, SJSEWP 15092; LB 31160  
*Symphyotrichum divaricatum* (Nutt.) Nesom, GW 1574; LB 30215  
*Symphyotrichum dumosum* (L.) Nesom, LB 30235, 30240; SJ 14257; MM 3648  
*Symphyotrichum lateriflorum* (L.) A. & D. Love, WP 058  
*Symphyotrichum racemosum* (Elliott) Nesom, LB 30244, 30881, 30880  
*Vernonia missurica* Raf., LB 29833, 30889  
*Xanthium strumarium* L., LB 29912  
\**Youngia japonica* (L.) DC., SJ 14021; LB 31049

**AZOLLACEAE***Azolla caroliniana* Willd., LB 30902**BERBERIDACEAE***Podophyllum peltatum* L., GW 3048**BETULACEAE***Carpinus caroliniana* Walter, SJ 14176*Ostrya virginiana* (Mill.) K. Koch, SJ 14114, 14173; LB 30093**BIGNONIACEAE***Bignonia capreolata* L., LB 29328, 30091; WP 091*Campsis radicans* (L.) Seem. ex Bureau, LB 29832; SJ 14250*Catalpa bignonioides* Walter, LB 29340**BLECHNACEAE***Woodwardia areolata* (L.) T. Moore, LB 30777*Woodwardia virginica* (L.) Sm., LB 29396**BORAGINACEAE***Heliotropium procumbens* Mill., LB 30160, 30672*Myosotis macrosperma* Engelm., SEWP 3063**BRASSICACEAE***Cardamine bulbosa* (Schreb. Ex Mull.) Britton, Sterns, Poggenb., GW 3049\**Cardamine debilis* D. Don, LB 30292a\**Cardamine hirsuta* L., LB 30292*Lepidium virginicum* L., LB 30603**BROMELIACEAE***Tillandsia usneoides* (L.) L., LB 29904; SJ 13845**BUDDLEJACEAE***Polypteron procumbens* L., LB 29896**BURMANNIACEAE***Burmannia capitata* (J.F. Gmel.) Mart., LB 30107**CACTACEAE***Opuntia stricta* (Haw.) Haw., GW 1639**CALLITRICHACEAE***Callitricha heterophylla* Pursh, SJSEWP 15076*Callitricha peploides* Nutt., SJSEWP 3107; LB 31228**CAMPANULACEAE***Lobelia cardinalis* L., LB 30167

*Lobelia flaccidifolia* Small, LB 30636, 29362; MM 3920  
*Lobelia puberula* Michx., SJ 14261; LB 30241  
*Lobelia reverchonii* B.L.Turner, LB 30230; PH 901144  
*Triodanis biflora* (Ruiz & Pavon) Greene, LB 30604  
*Triodanis perfoliata* (L.) Nieuwl., GW 3061

### CAPRIFOLIACEAE

\**Lonicera japonica* Thunb., SEWP 3065  
*Lonicera sempervirens* L., SJ 13929  
*Sambucus nigra* L. subsp. *canadensis* (L.) R. Bolli, LB 30390; SEEKWP 3105  
*Viburnum dentatum* L., SEEKWP 3078; LB 29861a, 29853  
*Viburnum nudum* L. var. *nudum*, SJ 13998; LB 29401, 30033

### CARYOPHYLLACEAE

\**Cerastium glomeratum* Thuill., SJSEWP 15066  
*Sagina decumbens* (Elliott) Torr. & A. Gray, LB 30400; SEEKWP 3108  
\*i<sub>S</sub>*Stellaria media* (L.) Vill., SJSEWP 15063

### CISTACEAE

+*Lechea minor* L., LB 30003

### COMMELINACEAE

*Commelina virginica* L., LB 30153

### CONVOLVULACEAE

*Dichondra carolinensis* Michx., LB 30075; SJ 13849  
*Evolvulus sericeus* Sw., LB 30121  
*Ipomoea coccinea* L., GW 3154  
*Ipomoea cordatotriloba* Dennst. var. *cordatotriloba*, LB 29867; SJ 14235

### CORNACEAE

*Cornus florida* L., SJSEWP 15043; LB 31047  
*Cornus foemina* Mill., LB 29938; SJ 13758  
*Nyssa aquatica* L., SJ 14122  
*Nyssa biflora* Walter, LB 29407; WRC 17365  
*Nyssa sylvatica* Marshall., LB 29336, 29978

### CRASSULACEAE

*Penthorum sedoides* L., LB 30671

### CUCURBITACEAE

*Cayaponia quinqueloba* (Raf.) Shinners, SJ 14515

### CUPRESSACEAE

*Taxodium distichum* (L.) L. C. Rich., LB 30207, 29917; SEEKWP 3099

### CYPERACEAE

*Carex abscondita* Mack., SJ 13851  
*Carex albicans* Willd. ex Spreng. subsp. *australis* (Bailey) J.H. Rettig, SEEKWP 3097; LB 30291  
*Carex annectens* E.P. Bicknell, LB 30382  
*Carex basiantha* Steud., SJ 13696; LB 30610  
*Carex blanda* Dewey, SJ 13916  
*Carex bulbostylis* Mack., LB 31163  
*Carex caroliniana* Schwein., LB 30612, 30575  
*Carex cherokeensis* Schwein., SJSEWP 15049

*Carex complanata* Torr. & Hook., LB 30381, 29330; SJ 14552, 13864  
*Carex crebriflora* Wieg., SJ 14553, 13597  
*Carex crus-corvi* Shuttl. ex Kunze, SEEKWP 3102  
*Carex debilis* Michx. var. *debilis*, SJ 13860; LB 31075  
*Carex digitalis* Willd. var. *asymetrica* Fernald, SJ 13852  
*Carex flaccosperma* Dewey, SJ 13803; LB 30388a; SEWP 3054  
*Carex frankii* Kunth, LB 30598; SEEKWP 3090  
*Carex gigantea* Rudge, SJ 14177, 14020  
*Carex glaucescens* Elliott, CL 901119; SJ 14162  
*Carex intumescens* Rudge, SEEKWP 3112; SJ 13857; LB 31077  
*Carex joorii* Bailey, LB 30781; SJ 14016  
*Carex leavenworthii* Dewey, SJSEWP 15079  
*Carex longii* Mack., SJ 13863; LB 30581, 29341  
*Carex louisianica* Bailey, LB 29845  
*Carex oxylepis* Torr. & Hook. var. *oxylepis*, SJ 13917  
*Carex retroflexa* Muhl. ex Willd., LB 30406, 30602; SJSEWP 15080  
*Carex striatula* Michx., SJ 13804  
*Carex tetrastachya* Scheele, SJ 13862  
*Carex texensis* Bailey, LB 30395; SJSEWP 15056  
*Carex triangularis* Boeck., SJ 13908; LB 30578  
*Carex tribuloides* Wahlenb. var. *sangamonensis* Clokey, LB 30607; SEEKWP 3088  
*Carex verrucosa* Muhl., SJ 14024  
*Carex vulpinoidea* Michx., LB 30383  
*Cladium mariscus* J. Pohl subsp. *jamaicense* (Crantz) Kukenth., LB 30898, 19238b (SBSC), 19421 (SBSC); SJ 14423  
*Cyperus acuminatus* Torr. & Hook. ex Torr., LB 29891a  
*Cyperus articulatus* L., LB 30154, SJ 14058  
\*i<sub>S</sub>*Cyperus entrerianus* Boeckl., LB 29914  
*Cyperus erythrorhizos* Muhl., LB 30151  
*Cyperus haspan* L., LB 30262, 29947; SJ 14041  
*Cyperus ochraceus* Vahl, LB 30885  
*Cyperus odoratus* L., LB 30712  
*Cyperus oxylepis* Nees ex Steud., SJ 14060, 14260  
*Cyperus polystachyos* Rottb., SJ 14059; GW 3165  
*Cyperus pseudovegetus* Steud., SJ 13867, 14076, 14010  
*Cyperus retrorsus* Chapm., SJ 14271  
*Cyperus strigosus* L., SJ 14277  
*Cyperus surinamensis* Rottb., SJ 14267  
*Cyperus thyridiflorus* Jungh., LB 29905; SJ 14174; SEEKWP 14174  
*Cyperus virens* Michx., SJ 13896; LB 29339  
*Eleocharis baldwinii* (Torr.) Chapman, LB 30387, 30163  
*Eleocharis geniculata* (L.) Roemer & J.S. Schultes, LB 30212, 29946  
*Eleocharis microcarpa* Torr., LB 30654, 30643; SJ 14550; MM 3852  
*Eleocharis montana* Roem. & Schult., LB 30890  
*Eleocharis montevideensis* Kunth, LB 29333; SJ 14070  
*Eleocharis tuberculosa* R.Br., MM 3858; LB 30216, 29961; WRC 17230

- Fimbristylis autumnalis* Roem. & Schult., LB 30157, 30036; GW 3166b
- \**Fimbristylis miliacea* (L.) Vahl, LB 30157a, 29989
- Fimbristylis puberula* Vahl var. *puberula* Vahl, SJ 14101; LB 31182
- Fuirena breviseta* (Cov.) Cov., LB 30727, 29948; MM 3480; WRC 17696; SJ 14110
- Fuirena bushii* Kral, LB 29393, 30010, 19239; SJ 14296
- Isolepis carinata* Hook. & Arn. ex Torr., LB 30409
- Kyllinga brevifolia* Rottb., LB 30087
- Kyllinga odorata* Vahl, SJ 14268
- Kyllinga pumila* Michx., LB 30263
- Rhynchospora caduca* Elliott, MM 3479b, 3540 LB 29883a
- Rhynchospora colorata* (L.) H. Pfeiffer, LB 29880, 29417; SJ 13770
- Rhynchospora corniculata* (Lam.) A. Gray, LB 29369
- Rhynchospora divergens* Chapm., LB 29410
- Rhynchospora elliotii* A. Dietr., LB 19280; MM 3927, 3948; SJ 14081
- Rhynchospora fascicularis* (Michx.) Vahl, LB 30217
- Rhynchospora filifolia* A. Gray, LB 30658, 30020; MM 3485, 3851
- Rhynchospora globularis* (Chapm.) Small, var. *globularis* LB 15998; MM 3864, 3938
- Rhynchospora globularis* (Chapm.) Small var. *pinetorum* (Britton & Small ex Small) Gale, SJ 14074
- Rhynchospora glomerata* (L.) Vahl, LB 30260; MM 3646; WRC 17703a; SJ 14163
- Rhynchospora gracilenta* A. Gray, MM 3844c; LB 30645, 30021; SJ 14613
- Rhynchospora inexpansa* (Michx.) Vahl, LB 30079, 30073; MM 3541; SJ 14164
- Rhynchospora latifolia* (Baldw. ex Elliott) Thomas, SJ 14077; MM 3940
- Rhynchospora mixta* Britton, LB 29895; SJ 14106
- Rhynchospora perplexa* Chapm. ex M. A. Curt. LB 30633, 30632, 30629, 29354
- Rhynchospora plumosa* Elliott, LB 30236; WRC 17355; MM 3488b; SJ 13936
- Rhynchospora pusilla* Chapm. ex M. A. Curtis, LB 30665, 30024a, 20417; MM 3479
- Rhynchospora rariflora* Elliott, LB 30630, 29383, 29353; MM 3867
- Rhynchospora recognita* (Gale) Kral, LB 29416, 30647, 29390; SJ 14080
- Scirpus cyperinus* Palla, LB 30696
- Scleria georgiana* Core, MM 3386 (SBSC), 3488; SJ 13768; LB 15999 (SBSC)
- Scleria oligantha* Michx., LB 30608, 30576; SEEKWP 3110
- Sclera pauciflora* Muhl. ex Willd., LB 30015; SJ 13797
- Scleria reticularis* Michx., MM 6667
- Scleria triglomerata* Michx., LB 30649, 29355, 30061; SEEKWP 3111

**CYRILLACEAE**

*Cyrilla racemiflora* L., LB 30006; SJ 14089

**DENNSTAEDTIACEAE**

*Pteridium aquilinum* (L.) Kuhn, WP 090; LB 30045

**DROSERACEAE**

*Drosera brevifolia* Pursh, SJ 13769; MM 3781

*Drosera capillaris* Poir., LB 29418; SJ 14043; MM 3860; GW 3064

**DRYOPTERIDACEAE**

*Polystichum acrostichoides* (Michx.) Schott, LB 30614, 30056, 29984

*Woodsia obtusa* (Spreng.) Torr. subsp. *obtusa*, SJ 14018

**EBENACEAE**

*Diospyros virginiana* L., LB 29937a; SJ 14051, 14248

**ERICACEAE**

*Rhododendron canescens* (Michx.) Sweet, SJSEWP 15044; LB 31080

*Rhododendron viscosum* (L.) Torr., SJ 14119

*Vaccinium arboreum* Marshall, SJ 13785; LB 29953, 30280

*Vaccinium corymbosum* L., LB 30412, 30223; SJ 13799, 14167

**ERIOCAULACEAE**

*Eriocaulon decangulare* L., LB 29398; SJ 14156; WRC 17697; GW 3100

*Lachnocaulon anceps* Morong, LB 29415; SJ 13774

**EUPHORBIACEAE**

*Acalypha gracilens* A. Gray, GW 3138; LB 30210, 30715, 30077

*Acalypha virginica* L., SJ 14165

\**Caperonia palustris* (L.) St.-Hil., GW 3138

*Chamaesyce cordifolia* (Elliott) Small, SJ 14198

*Chamaesyce humistrata* (Engelm.) Small, GW 3162

*Chamaesyce maculata* (L.) Small, LB 30201, 29935, 30713

*Chamaesyce nutans* (Lag.) Small, GW 3106, 3168; LB 30195, 30202

*Croton capitatus* Michx., WP 069; LB 29921

*Croton glandulosus* L. var. *glandulosus* Muell.-Arg. LB 30718, 29855

*Croton monanthogynus* Michx., LB 30886

*Euphorbia corollata* L., LB 30732a, 30252, 30099

*Phyllanthus caroliniensis* Walter, LB 30896, 30198, GW 3085

\**Phyllanthus urinaria* L., LB 29868; GW 3105, 3140

\**Triadica sebifera* (L.) Small, SEEKWP 3096

\**Vernicia fordii* (Hemsl.) Airy-Shaw, SEEKWP 3109; LB 30090

**FABACEAE**

\**Albizia julibrissin* Durazz., SEEKWP 3083; LB 30248, 30051

*Amorpha fruticosa* L., LB 30618, 29926

*Baptisia bracteata* Muhl. ex Elliott var. *laevicaulis* (A. Gray ex Canby) Isley, LB 31085

*Centrosema virginianum* (L.) Benth., LB 29851; GW 3145

*Cercis canadensis* L. var. *canadensis*, SJSEWP 15054  
*Chamaecrista fasciculata* (Michx.) Greene, LB 29849  
*Chamaecrista nictitans* (L.) Moench, GW 3137  
*Desmanthus illinoensis* Mac. Mill., LB 30667  
*Desmodium glabellum* (Michx.) DC., LB 30721  
*Desmodium laevigatum* (Nutt.) DC., GW 3144  
*Desmodium paniculatum* DC., LB 30185, 30043; SJ 14071; GW 3152  
*Erythrina herbacea* L., LB 30615  
*Galactia volubilis* (L.) Britton, LB 29860; GW 3148  
*Gleditsia triacanthos* L., GW 2717  
*Glottidium vesicarium* (Jacq.) Harper, LB 30716, 29943, 29925  
*Lespedeza virginica* (L.) Britton, GW N20  
*Lupinus subcarnosus* Hook., GW 3074; LB 31052  
\**Medicago lupulina* L., LB 30408; SEEKWP 3081  
\**Medicago polymorpha* L., LB 30286  
*Mimosa hystricina* (Small ex Britton & Rose) B.L. Turner, MM 3660  
\**Melilotus indicus* (L.) All., SEWP 3048; LB 31048  
*Mimosa hystricina* (Small ex Britton & Rose) B.L. Turner, LB 29387, 29373; MM 3660; SJ 13779  
*Mimosa strigillosa* Torr. & A. Gray, LB 30714  
*Neptunia pubescens* Benth., LB 31238  
*Senna obtusifolia* (L.) Irwin & Barneby, LB 29918  
*Sesbania drummondii* (Rydb.) Cory, SEEKWP 3103; LB 30181, 29927  
*Sesbania herbacea* (Mill.) McVaugh, LB 30710; WP 065  
*Strophostyles umbellata* (Muhl. ex Willd.) Britton, LB 30057; SJ 14086, 14263  
*Tephrosia onobrychoides* Nutt., SJ 14298; LB 29999  
\**Trifolium campestre* Schreb., SJSEWP 15050  
\**Trifolium dubium* Sibthrop, LB 30403  
\**Trifolium repens* L., SEWP 3062; SJSEWP 15096  
\**Vicia hirsuta* (L.) S.F. Gray, LB 30402, 31053; SEWP 3067  
*Vicia ludoviciana* Nutt. subsp. *ludoviciana*, GW 3073; LB 31051  
*Vicia minutiflora* D. Dietr., SJSEWP 15091  
\**Vicia sativa* L. subsp. *nigra* (L.) Ehrh., SEWP 3066  
\**Vicia tetrasperma* LB 30620  
*Wisteria frutescens* (L.) Poir., LB 30619

**FAGACEAE**

*Castanea pumila* (L.) Mill., SEEKWP 3116; SJ 13784  
*Fagus grandifolia* Ehrh., WP 178; LB 31078  
*Quercus alba* L., LB 29337  
*Quercus falcata* Michx., LB 30584, 29374, 29977; SJ 13801  
*Quercus hemisphaerica* W. Bartram ex Willd., LB 30282; SJ 14107, 13763  
*Quercus incana* W. Bartram, SJ 14082  
*Quercus laurifolia* Michx., LB 30591, 30174, 29922; SJSEWP 16466  
*Quercus lyrata* Walter, LB 29928; SJ 13783; GW 514  
*Quercus margarettae* (Ashe) Ashe, LB 31173  
*Quercus marilandica* Muench., SJ 13792  
*Quercus michauxii* Nutt., LB 29840; SJ 13850

*Quercus nigra* L., LB 29385, 29331; SJSEWP 150843  
*Quercus pagoda* Raf., SJ 13844, 13838, 14116  
*Quercus phellos* L., LB 29391, 30025, 29975  
*Quercus stellata* Wangenh., SJ 13793  
*Quercus velutina* Lam., SJ 14056  
*Quercus virginica* Mill., WP 180

**GENTIANACEAE**

\**Centaurium floribundum* (Benth.) B.L. Rob., LB 30583  
\**Centaurium pulchellum* (Sw.) Druce, LB 30597, 30094; SEEKWP 3075

*Sabatia arenicola* Greenm., SJ 13870

*Sabatia calycina* A. Heller, LB 30673

*Sabatia campestris* Nutt., SJ 14096

*Sabatia gentianoides* Elliott, MM 3635

**GERANIACEAE**

*Geranium carolinianum* L., SEWP 3075; LB 30285

**GROSSULARIACEAE**

*Itea virginica* L., SJ 14118, 14023

**HALORAGACEAE**

*Myriophyllum pinnatum* (Walter) Britton, Sterns, Poggenb., SJ 13921

*Proserpinaca palustris* L., SJ 13913; LB 30644

*Proserpinaca pectinata* Lam., LB 30644; GW 3108; MM 3475; DS 090

**HAMAMELIDACEAE**

*Liquidambar styraciflua* L., SJSEWP 15071

**HYDROPHYLACEAE**

*Hydrolea ovata* Nutt. ex Choisy, LB 29958; GW 3109  
SJ 13788; MM 3389

*Hypericum galiodoides* Lam., LB 30728, 29944; SJ 14514; MM 4001

*Hypericum mutilum* L., LB 30002; SJ 14160

*Triadenium walteri* (J.G. Gmel.) Gleason, LB 30180, 29892, 30780; GW 3093

**IRIDACEAE**

*Sisyrinchium angustifolium* Mill., GW 3054; LB 29358; PHCLLB s.n. (SBSC)

*Sisyrinchium atlanticum* E.P. Bicknell, SJ 13760, 14255; MM 3875; LB 31169

*Sisyrinchium langloisii* Greene, LB 31174

*Sisyrinchium rosulatum* E. P. Bicknell, GW 3061; SEWP 3061

*Sisyrinchium sagittiferum* E. P. Bicknell, GW 3082 LB 30410, 31029

**JUGLANDACEAE**

*Carya aquatica* (Michx.) Nutt., LB 29937, 30085

*Carya illinoensis* K. Koch, LB 30893

*Carya texana* Buckley, LB 30046; SJ 13970

*Carya tomentosa* (Lam. ex Poir.) Nutt., LB 30611, 30579

*Juglans nigra* L., LB 29913

**JUNCACEAE**

- Juncus acuminatus* Michx., SJ 13898, 14012  
*Juncus brachycarpus* Weigel, LB 29408; SJ 13899, 14099  
*Juncus coriaceus* Mack., LB 29932, 29945; SJSEWP 15068  
*Juncus dichotomus* Elliott, LB 31167  
*Juncus diffusissimus* Buckley, SJ 13900, 14008  
*Juncus effusus* L., LB 30155; SEWP 3071  
*Juncus elliotii* Chapm., SJ 14061; LB 29342, 31180C  
*Juncus marginatus* Rostk., SJ 14002, 14065; LB 29347  
*Juncus nodatus* Coville, SJ 13901  
*Juncus repens* Michx., SJ 14013 LB 30641  
*Juncus tenuis* Willd., LB 30086; SJ 14074a, 13897  
*Juncus validus* Coville, LB 29334

**LAMIACEAE**

- Hedeoma hispidum* Pursh, LB 31166  
*Hyptis alata* (Raf.) Shinners, LB 29885; MM 3484  
*Lycopus rubellus* Moench, LB 30242; PH 901159  
*Monarda punctata* L., LB 29859  
*\*Perilla frutescens* (L.) Britton, LB 29890; GW 3052  
*Prunella vulgaris* L., SJ 13919  
*Pycnanthemum albescens* Torr. & A. Gray, LB 30196, 29954  
*Salvia coccinea* Buchoz ex Etlinger, SJ 14259  
*Salvia lyrata* L., LB 30054; SJSEWP 15047  
*Scutellaria integrifolia* L., SJ 13789, 14549, 14052; MM 3876  
*Stachys crenata* Raf., LB 30396; SEWP 3068

**LAURACEAE**

- Persea palustris* (Raf.) Sarg., LB 30211, 29866, 29381, 29359  
*Sassafras albidum* (Nutt.) Nees, LB 30222

**LEMNACEAE**

- \*Landolta punctata* (G. Meyer) Les & D.J. Crawford, LB 29893, 31069  
*Wolffia brasiliensis* Wedd., LB 30878, 31070  
*Wolffia columbiana* H. Karst., LB 31070a  
*Wolffiella gladiata* (Hegelm.) Hegelm., LB 31068

**LENTIBULARIACEAE**

- Pinguicula pumila* Michx., SJ 13702; MM 3761

**LILIACEAE**

- Aletris aurea* Walter, LB 30028, 29991; SJ 14094; MM 3639  
*Allium canadense* L. var. *canadense*, SJ 13765, 13874  
*Hymenocallis liriosme* (Raf.) Shinners, SEWP 3072  
*Hypoxis rigida* Chapm. LB 30233, 31171  
*Hypoxis wrightii* (Baker) Brackett, LB 31159  
*\*Narcissus tazetta* L., WP 098  
*Nothoscordum bivalve* (L.) Britton, SJSEWP 15046  
*\*Ophiopogon jaburan* Lodd., LB 30092  
*Schoenolirion croceum* (Michx.) Wood, SJ 14548; MM 3783, LB 31057  
*\*Zephyranthes candida* Herb., LB 29911; SE 4581

**LINACEAE**

- Linum medium* (Planch.) Britton var. *texanum* (Planch.) Fernald, LB 303728a, 30657; SJ 14055; MM 3546

*Linum striatum* Walter, LB 30653, 30639; SJ 14169; GW 3075

**LOGANIACEAE**

- Gelsemium sempervirens* (L.) Aiton f., LB 29386, 30279; SJSEWP 15038  
*Mitreola petiolata* (J.F. Gmel.) Torr. & A. Gray, LB 29881; SJ 14159  
*Mitreola sessilifolia* (J.F. Gmel.) G. Don, LB 30012; MM 3483; PH 901141

**LYCOPODIACEAE**

- Lycopodiella appressa* (Chapm.) Cranfill, GW 3435; WRC 17358, 17228; MM 3734

**LYGODIACEAE**

- \*Lygodium japonicum* (Thunb. ex Murray) Sw., LB 29888, 29856; SJSEWP 15045

**LYTHRACEAE**

- \*Cuphea carthagenensis* (Jacq.) J.F. Macbr., GW 3076  
*\*Lagerstroemia indica* L., LB 30600  
*Lythrum alatum* Pursh var. *lanceolatum* (Elliott) Torr. & A. Gray, LB 30042; SJ 14270

*Rotala ramosior* (L.) Koehne, LB 30161; GW 3090

**MAGNOLIACEAE**

- Magnolia grandiflora* L., LB 29857; SJ 14239  
*Magnolia virginiana* L., SJ 14038

**MALVACEAE**

- \*Abutilon theophrasti* Medik., GW 3134  
*Hibiscus moscheutos* L., LB 30173; GW 3094  
*Malvastrum coromandelianum* (L.) Garcke, GW 3088  
*Modiola caroliniana* (L.) G. Don, SEWP 3064  
*Sida rhombifolia* L., LB 30694  
*Sida spinosa* L., GW 3163

**MELASTOMATACEAE**

- Rhexia lutea* Walter, LB 30663; MM 3388; WRC 17227; SJ 14054  
*Rhexia mariana* L., MM 3489; SJ 14155, 14015; GW 3126

**MORACEAE**

- Morus rubra* L., LB 29939

**MYRICACEAE**

- Morella caroliniensis* (Mill.) Small, SJ 14117, 14062  
*Morella cerifera* (L.) Small, LB 30047; WRC 17356

**OLEACEAE**

- Chionanthus virginicus* L., WP 087; LB 29335, 31071  
*Fraxinus americana* L., LB 30251  
*Fraxinus caroliniana* Mill., SJ 14175  
*Fraxinus pennsylvanica* Marshall., LB 29924  
*\*Ligustrum sinense* Lour., LB 29865; SJ 14068

**ONAGRACEAE**

- Gaura lindheimeri* Engelm. & A. Gray, LB 30007; WRC 17701; SJ 14510; DS 124  
*Gaura longiflora* Spach, LB 30146  
*Ludwigia alternifolia* L., LB 29879; SJ 14509  
*Ludwigia decurrens* Walter, LB 30152

*Ludwigia glandulosa* Walter, LB 29987; SJ 14234; GW 3104  
*Ludwigia grandiflora* (Michx.) Greuder & Burdet, GW 3180  
*Ludwigia hirtella* Raf.; LB 29951, 29367; SJ 14171; DS 123  
*Ludwigia linearis* Walter, MM 3538; LB 29959, 29992  
*Ludwigia microcarpa* Michx., LB 30684  
*Ludwigia octovalvis* (Jacq.) P.H. Raven, LB 30725  
*Ludwigia palustris* (L.) Elliott, LB 30669, 30159  
*Ludwigia peploides* (Kunth) P.H. Raven, LB 30148  
*Ludwigia pilosa* Walter, LB 30774, 30122a, 30032; CL 901157

*Oenothera biennis* L., LB 30247  
*Oenothera laciniata* Hill, SEWP 3069, SJSEWP 15086  
*Oenothera speciosa* Nutt., LB 30624; SEEKWP 3101

### OPHIOGLOSSACEAE

*Botrychium biternatum* (Sav.) Underwood, GW 3051  
*Ophioglossum crotalophoroides* Walter, LB 31050  
*Ophioglossum petiolatum* Hook., LB 30394

### ORCHIDACEAE

*Calopogon tuberosus* (L.) Britton, Sterns, Poggenb., LB 29406, 29392; SJ 14079; MM 3924  
*Listera australis* Lindl., SJ 13698  
*Spiranthes cernua* (L.) L.C. Rich., WP 060  
*Spiranthes floridana* (Wherry) Cory, LB 20418(SBSC)  
+*Spiranthes longilabris* MM 4041  
*Spiranthes odorata* (Nutt.) Lindl., LB 30894  
*Spiranthes praecox* (Walter) S. Watson, MM 3863; LB 31178  
*Spiranthes tuberosa* Raf., SJ 14093  
*Spiranthes vernalis* Engelm. & A. Gray, MM 3919

### OSMUNDACEAE

*Osmunda regalis* L. var *spectabilis* (Willd.) A. Gray, LB 29360; WP 098

### OXALIDACEAE

*Oxalis corniculata* L. var. *wrightii* (A. Gray) B.L. Turner, LB 30385; GW 3077  
\**Oxalis debilis* Kunth var. *corymbosa* (DC.) Lourteig, LB 30389, 30250; SEWP 3051  
*Oxalis lyonii* Pursh, (T) SJSEWP 15055

### PASSIFLORACEAE

*Passiflora incarnata* L., LB 29907; SJSEWP 16461  
*Passiflora lutea* L., LB 30613, 30067

### PHYTOLACCACEAE

*Phytolacca americana* L., SJ 14272 PINF  
*Pinus echinata* Mill., LB 30113a  
*Pinus palustris* Mill., LB 29384  
*Pinus taeda* L., LB 30144, 29399; SEEKWP 3092

### PLANTAGINACEAE

\**Plantago major* L., LB 30289, 30284  
*Plantago virginica* L., LB 30404, 29882; SEWP 3060

### PLATANACEAE

*Platanus occidentalis* L., LB 29852

### POACEAE

*Agrostis hyemalis* (Walter) Britton, Sterns, Poggenb., SEWP 3059; SJ 13868  
*Andropogon glomeratus* (Walter) Britton, Sterns, Poggenb., LB 30188; WP 063  
*Andropogon virginicus* L., LB 30882, 30172; CL 901126  
*Anthaenantia texana* Kral, LB 30234; WRC 10840; MM 3727, 3665  
*Aristida longispica* Poir. var. *geniculata* (Raf.) Fernald, LB 30256  
*Aristida longispica* Poir. var. *longispica*, LB 30236a  
*Aristida palustris* (Chapm.) Vasey, LB 30730, 30729; WRC 17232; MM 3542  
*Aristida purpurascens* Poir. var. *virgata* (Trin.) Allred, LB 30237, 30228, 30227, 29956  
*Arundinaria gigantea* (Walter) Muhl., SJSEWP 15072  
*Axonopus fissifolius* (Raddi) Kuhlm., SJ 14113; MM 3653b; LB 30680, 30674  
*Axonopus furcatus* (Flüggé) A. S. Hitchc., LB 29349 PH 901161; SJ 14115  
\**Briza minor* L., SJSEWP 15053  
\*Bromus catharticus Vahl, LB 30599; SEEKWP 3095  
*Chasmanthium latifolium* (Michx.) Yates, SJ 14252  
*Chasmanthium laxum* (L.) Yates var. *laxum*, LB 29839  
*Chasmanthium laxum* (L.) Yates var. *sessiliflorum* (Poir.) Wipff & S. Jones, LB 30717  
*Coelorachis rugosa* (Nutt.) Nash, LB 30736; MM 3721, 3637  
\*Cynodon dactylon (L.) Pers., LB 30621; SEEKWP 3086  
*Dichanthelium aciculare* (Desv. ex Poir.) Gould & Clark var. *angustifolium* (Elliott) S.L. Hatch, LB 30588, 31184, 30035; SJ 14459  
*Dichanthelium acuminatum* (Sw.) Gould & C.A. Clark var. *acuminatum* SJ 14556; LB 29357, 30695  
*Dichanthelium acuminatum* (Sw.) Gould & C.A. Clark var. *densiflorum* (E.L. Rand & Redfield) Gould & C.A. Clark, LB 29371  
*Dichanthelium acuminatum* (Sw.) Gould & C.A. Clark var. *longiligulatum* (Nash) Gould & C.A. Clark, LB 30626, 29346; MM 3482; CL 901136  
*Dichanthelium boscii* (Poir.) Gould & Clark, LB 30609, 29908, 30876, 31230  
*Dichanthelium commutatum* (Schultes) Gould subsp. *commutatum*, LB 29883, 29982; SJSEWP 15058  
*Dichanthelium commutatum* (Schultes) Gould subsp. *equilaterale* (Scribnier) Freckman & Lelong, LB 30063 (SBSC)  
*Dichanthelium consanguineum* (Kunth) Gould & C.A. Clark LB 30650; MM 3862  
*Dichanthelium dichotomum* (L.) Gould var. *dichotomum*, LB 30586, 30585, 30642a, 29897  
*Dichanthelium dichotomum* (L.) Gould & C.A. Clark subsp. *microcarpon* (Muhl. ex Elliott.) Freckman & Lelong, LB 30642, 29897, 29986  
*Dichanthelium dichotomum* (L.) Gould subsp. *nitidus* (Lam.) Freckman & Lelong, LB 31162

- Dichanthelium ensifolium* (Baldw. ex Elliott) Gould  
subsp. *ensifolium*, LB 30089, 29897
- Dichanthelium laxiflorum* (Lam.) Gould, LB 29842;  
SJSEWP 15057
- +*Dichanthelium ovale* (Elliott) Gould & C.A. Clark WRC  
17362
- Dichanthelium ovale* (Elliott) Gould & C.A. Clark subsp.  
*vilosissimum* (Nash) Freckman & Lelong, LB 30660,  
30651; SJ 14554; WRC 17366
- Dichanthelium polyanthes* (Schult.) Mohlenbr., LB  
30589, 31319
- Dichanthelium ravenelii* (Scribner & Merr.) Gould & C.A.  
Clark, LB 30699
- Dichanthelium scabriusculum* (Elliott) Gould & C.A.  
Clark, LB 30034, 29980, 29348
- Dichanthelium scoparium* (Lam.) Gould, LB 30659,  
30261, 29370; SJ 14042
- Dichanthelium sphaerocarpum* (Elliott) Gould, LB 29345,  
30004; SJ 14460
- Dichanthelium tenue* (Muhl.) Freckman & Lelong, LB  
29377; SJ 14557
- Dichanthelium wrightianum* (Scribn.) Freckmann, MM  
3385
- Digitaria ciliaris* (Retz.) Koel., LB 30226, 30190, 29903,  
30072
- \**Digitaria ischaemum* (Schreb.) Schreb. LB 30189
- Echinochloa walteri* (Pursh) Heller, SJ 14290
- \**Eleusine indica* (L.) Gaertn., LB 30078
- Elymus virginicus* L., SJ 14276
- Eragrostis elliottii* S. Watson, LB 30187; PH 901148
- Eragrostis hypnoides* (Lam.) Britton, Sterns, Poggenb.,  
LB 30177
- Eragrostis refracta* (Muhl.) Scribn., GW 2400; MM 3654
- Eragrostis secundiflora* (J. Presl) subsp. *Oxylepis* (Torr.) S.  
D. Koch, LB 29872; SJ 14075; PH 901143
- \**Eremochloa ophiuroides* (Munro) Hack., LB 30065
- Hordeum pusillum* Nutt., LB 30405; SEEKWP 3085
- Leersia hexandra* Sw., LB 30038
- Leersia lenticularis* Michx., LB 30166a; SJ 14172
- Leersia virginica* Willd., LB 30197; SJ 13856
- \**Lolium arundinaceum* (Schreb.) S.J. Darbyshire, SJ  
15095
- Melica mutica* Walter, SJ 13697
- Muhlenbergia capillaris* (Lam.) Trin., CL 901128; MM 3656;  
LB 30900, 31081
- Muhlenbergia expansa* (Poir.) Trin., GW 2408a; MM 3724  
(SBSC)
- Oplismenus hirtellus* (L.) Beauv., LB 30169, 29916
- Panicum anceps* Michx., LB 29899; PH 901140
- Panicum brachyanthum* Steud., LB 30187; CL 901156
- Panicum dichotomiflorum* Michx., LB 30711, 30888
- Panicum gymnocarpon* Elliott, LB 30779
- Panicum hemitomon* J.A. Schultes, SJ 14019
- \**Panicum repens* L., LB 29343
- Panicum rigidulum* Bosc ex Nees, LB 30175; PH 901163,  
901167, MM 3732
- Panicum tenerum* Bey. ex Trin., LB 19343, 30019; WRC  
17698; MM 3487
- Panicum verrucosum* Muhl., MM 3666; LB 30184, 30259
- Panicum virgatum* L., LB 30111
- \**Parapholis incurva* (L.) C.E. Hubbard, SJ 13865
- \**Paspalum dilatatum* Poir., LB 29884
- Paspalum floridanum* Michx., LB 30192, 30123, 30770
- Paspalum laeve* Michx., LB 30775, 30171, 29963; MM  
3663
- Paspalum langei* (Fourn.) Nash, LB 29902a; SJSEWP  
16460
- Paspalum lividum* Trin., LB 30162
- Paspalum minus* Fourn., LB 30879, 30640, 30096, 19238  
(SBSC)
- \**Paspalum notatum* Flüggé, LB 29964, 29405, 19238  
(SBSC)
- Paspalum plicatulum* Michx., SJ 14067
- Paspalum praecox* Walter, LB 30026; CL 901158; SJ  
14105; MM 3731
- Paspalum setaceum* Michx., LB 29876, 29870a
- \**Paspalum urvillei* Steud., LB 29942; GW 3023; SEEKWP  
3093
- \**Poa annua* L., SJSEWP 15061
- Poa autumnalis* Muhl. ex Elliott, LB 31055
- \**Polypogon monspeliensis* Muhl. ex Elliott, LB 30606
- Saccharum baldwinii* Sprengel., LB 30168, 29931, 30773
- Saccharum giganteum* (Walter) Pers., LB 30147, 30892
- Schizachyrium scoparium* (Michx.) Nash var. *divergens*  
(Hack.) Gould, PH 901145; CL 901122; DW s.n.
- Sorghum halepense* (L.) Pers., LB 30594, 29941; SEEK  
3084
- Sphenopholis obtusata* (Michx.) Scribn., SJ 13915; GW  
2246b; LB 31164
- Sporobolus indicus* (L.) R. Br., LB 30622, 29909
- Sporobolus silveanus* Swallen, LB 14907 (SBSC), 14702  
(SBSC); PH 901147
- Steinchisma hians* (Elliott) Nash, SJ 13892
- Tridens ambiguus* (Elliott) J.A. Schultes, WRC 17234; CL  
901120; GW 2406; MM 3544
- Tridens flavus* (L.) Hitchc. var. *flavus*, LB 29923; WP 066
- Tridens strictus* (Nutt.) Nash, LB 30145, 30258; CL 901121;  
MM 3722
- Tripsacum dactyloides* (L.) L., SJ 14025
- Urochloa platyphylla* (Munro ex Wright) R. Webster, GW  
3164

### POLYGALACEAE

- Polygala cruciata* var. *cruciata* L., LB 29995; SJ 14111,  
14425, 14293
- Polygala incarnata* L., LB 30655
- Polygala leptocaulis* Torr. & A. Gray, LB 30691, 30687; SJ  
14161, 13993
- Polygala mariana* Mill., LB 29400, 30027; MM 3726
- Polygala ramosa* Elliott, LB 30017; SJ 14158; MM 3877

### POLYGONACEAE

- Brunnichia ovata* (Walter) Shinners, LB 29846

\**Polygonum cespitosum* Blume var. *longisetum* (De Bruyn) Stewart, LB 31318  
*Polygonum densiflorum* Meisn., LB 30179; GW 3166a  
*Polygonum hydropiperoides* Michx., SJ 13891  
*Polygonum punctatum* Elliott, WP 064; LB 30150, 30084a; GW NO2  
*Polygonum virginianum* L., LB 30088, 30209  
\**Rumex crispus* L., SJ 13859, 14251  
*Rumex chrysocarpus* Moris, LB 31234  
\**Rumex pulcher* L., LB 30605; SEEKWP 3089

### **POLYPODIACEAE**

*Pleopeltis polypodioides* Andrews & Windham subsp.*michaixiana* (Weatherby) Andrews & Windham, LB 30084

### **PRIMULACEAE**

\**Anagallis arvensis* L., SJSEWP 15051  
*Anagallis minima* (L.) E.H.L.Krause, LB 31178a  
*Samolus valerandi* L. subsp. *parviflorus* (Raf.) Hultén, LB 29889; SJ 13831

### **RANUNCULACEAE**

*Clematis crispa* L., LB 30723, 30580; WP 092; SJ 14262  
*Ranunculus hispidus* Michx. var. *nitidus* (Chapm.) T.Duncan, SJSEWP 15064  
*Ranunculus pusillus* Poir., SJSEWP 15074

### **RHAMNACEAE**

*Berchemia scandens* (Hill) K.Koch, LB 29874; SEWP 3049  
*Rhamnus caroliniana* Walter, WP 099

### **ROSACEAE**

*Crataegus berberifolia* Torr. & A. Gray, SJ 14249  
*Crataegus brachyacantha* Sarg. & Engelm., LB 30205, 29930; GW 3041  
*Crataegus marshallii* Egglest., SJ 14244  
*Crataegus opaca* Hook. & Arn., SJ 13761; LB 30206, 29836, 19244  
*Crataegus spathulata* Michx., LB 30679  
*Crataegus viridis* L., SJ 14253  
\**Duchesnea indica* (Andr.) Focke, SJSEWP 15062  
*Photinia pyrifolia* (Lam.) K.R.Robertson & J.B.Phipps, LB 29402; SJSEWP 15039; SJ 13996  
*Prunus caroliniana* (Mill.) Aiton, SJ 13909  
*Prunus serotina* Ehrh., SJ 14108  
\**Pyracantha koidzumi* (Hayata) Rehder, SEWP 3055  
\**Rosa bracteata* J.C.Wendl., SJ 14063  
*Rubus argutus* Link, LB 30873, 30577; SEEKWP 3082  
*Rubus trivialis* Michx., SJSEWP 15052  
\**Spiraea cantoniensis* Lour., LB 30398a

### **RUBIACEAE**

*Cephalanthus occidentalis* L., SJ 14258; LB 30384  
*Diodia teres* Walter, LB 29873  
*Diodia virginiana* L., LB 29990a; MM 3475  
*Galium aparine* L., SJSEWP 15094  
*Galium obtusum* Bigelow, SJ 14268a  
*Galium pilosum* Aiton, LB 30593; SJ 14241; SJSEWP 16462; GW 3066

*Galium tinctorium* (L.) Scop., SJSEWP 15073  
*Gardenia augusta* Merr., SJ 14143  
*Houstonia pusilla* Schoepf, LB 30393; SJSEWP 15060  
*Mitchella repens* L., LB 29841, 30074; SJ 13794  
*Oldenlandia boscii* (DC.) Chapm., LB 30662, 30220  
*Oldenlandia uniflora* L., GW 3420  
\**Sherardia arvensis* L., SEWP 3070; SJSEWP 15082  
*Stenaria nigricans* (Lam.) Terrell, SJ 14039; PH 901162; LB 31226

### **RUTACEAE**

\**Poncirus trifoliata* (L.) Raf., SJ 14254

### **SALICACEAE**

*Salix nigra* Marshall., LB 29949

### **SARRACENIACEAE**

+*Sarracenia alata* Wood, LB 30726; SJ 13777; WRC 17354

### **SAURURACEAE**

*Saururus cernuus* L., LB 29835; SJ 14168

### **SCROPHULARIACEAE**

*Agalinis fasciculata* (Elliott) Raf., SJ 13861, 14506  
*Agalinis heterophylla* (Nutt.) Small ex Britton, LB 30208; GW 3135, 3401  
*Agalinis purpurea* (L.) Pennell, LB 30875, 30214, 30144a; GW 3129  
*Agalinis viridis* (Small) Pennell, LB 30218  
*Aureolaria flava* (L.) Farw. var. *flava* LB 29955, 30001; SJ 14045, 14236

*Bacopa caroliniana* (Walter) Robins. LB 30778

*Bacopa monnieri* (L.) Pennell, LB 30203, 29886

*Gratiola brevifolia* Raf., LB 29364; SJ 14003; GW 3117; MM 3916

*Gratiola pilosa* Michx., LB 30000; GW 3127; PH 901155

*Gratiola virginiana* L., SJSEWP 15075

\**Lindernia crustacea*, (L.) F.Muell., LB 29900, 30080

*Mecardonia acuminata* (Walter) Small, LB 30200, 30100; PH 901142

*Mecardonia procumbens* (Mill.) Small, SJSEWP 15089; GW 3160

*Micranthemum umbrosum* (J.G.Gmel.) Blake, LB 30178, 30164

*Scoparia dulcis* L., LB 30719, 30204, 29901; SJ 14072

\**Verbascum thapsus* L., GW 3047

\**Veronica arvensis* L., LB 30401

*Veronica peregrina* L., LB 30401a, 30386

\**Veronica polita* Fries, LB 30290

### **SELAGINELLACEAE**

*Selaginella apoda* (L.) Spring, SJSEWP 15077; LB 30281

### **SMILACACEAE**

*Smilax bona-nox* L., SEWP 3050, SJ 14066

*Smilax glauca* Walter, LB 30182, 30022; SJ 14007

*Smilax laurifolia* L., SJ 13778; LB 29389, 30113, 30874

*Smilax pumila* Walter, LB 30225, 29894; SJ 13904

*Smilax rotundifolia* L., LB 29365

*Smilax smallii* Morong, LB 30040

*Smilax walteri* Pursh, GW 2405

#### SOLANACEAE

*Physalis cordata* Mill., GW 3153

*Physalis pubescens* L., LB 30399; GW 3065

*Solanum carolinense* L., SEEKWP 3076; LB 29875

*Solanum elaeagnifolium* Cav., SJ 14246; GW 3146

#### STYRACACEAE

*Styrax americanus* Lam. LB 30384a, 30243; SJ 13910

*Styrax grandifolius* Aiton, SJ 14005

#### SYMPLOCACEAE

*Symplocos tinctoria* (L.) L'Her, LB 29834, 29378, 30095;

WRC 17360

#### THELYPTERIDACEAE

*Thelypteris kunthii* (Desv.) Morton, LB 29898; SJ 13933

#### TYPHACEAE

*Typha latifolia* L., LB 31073

#### ULMACEAE

*Celtis laevigata* Willd., LB 29861

*Planera aquatica* J.F. Gmel., LB 30156, 29932; SJSEWP 15067

*Ulmus alata* Michx., LB 29920; SJSEWP 15067

*Ulmus americana* L., LB 29858, 30288

#### URTICACEAE

*Boehmeria cylindrica* (L.) Sw., LB 30616, 29891, 30052

#### VALERIANACEAE

*Valerianella radiata* (L.) Dufr., SJSEWP 15088

#### VERBENACEAE

*Callicarpa americana* L., WP 179

\**Glandularia pulchella* (Sweet) Troncoso, SJ 14247; SJSEWP 15087

*Lantana urticoides* Heyek, GW 3141

*Phyla nodiflora* (L.) Greene, SEEKWP 3079; LB 29869; SJ 14097

\**Verbena brasiliensis* Vell., LB 30722; SEEKWP 3080

*Verbena halei* Small, LB 30070; SEEKWP 3114

*Verbena scabra* Vahl, LB 29902

#### VIOLACEAE

*Viola lanceolata* subsp. *vittata* (Greene) Russell., WRC 17357; SJ 13699; MM 3762; LB 30296

*Viola palmata* L., SJSEWP 15059; SJ 13700; GW 30469; LB 30294

*Viola sororia* Willd. var. *missouriensis* (Greene) McKinney, GW 3050; LB 31067

#### VISACEAE

*Phoradendron serotinum* (Raf.) M.C.Johnston, SJ 14505; GW 3173

#### VITACEAE

*Ampelopsis arborea* (L.) Koehne, WP 067; LB 29934

*Parthenocissus quinquefolia* (L.) Planch., LB 29850

*Vitis aestivalis* Michx., LB 30724, 30062; SJ 14105

*Vitis cinerea* (Engelm) Millard. var. *cinerea*, LB 29326; SJ 14116a

*Vitis rotundifolia* Michx., SEEKWP 3087; LB 30219, 30003a

#### XYRIDACEAE

*Xyris ambigua* Bey.ex Kunth, LB 29419, 30116; SJ 14083; GW 3446

*Xyris baldwiniana* Schult., LB 29413; SJ 14045a

*Xyris difformis* Chapm. var. *diformis*, MM 3657

*Xyris jupicai* L.C.Rich., LB 30218a; SJ 14275

*Xyris laxifolia* Mart. var. *iridifolia* (Chapm.) Kral, LB 30083; GW 3107a

*Xyris stricta* Chapm. var. *obscura* Kral, LB 30109, 29950, 29981; MM 3535

#### Notes

**Coreopsis gladata.**—We are merging *C. linifolia* with this species following Strother (2006).

**Dichanthelium ovale.**—WRC 17362 has the papilose-based hairs of subsp. *vilosissimum* but the longer (up to 3 mm) spikelets of subsp. *ovale* (refer to Diggs et al. 2006). Thus we are unable to assign a subspecies to this collection.

**Echinacea pallida** var. **sanguinea**.—This globally rare (G3) species was once on the Texas rare plant list (Pool et al. 2002; Wildlife Diversity Program 2004). It occurs in many east Texas counties (Turner et al. 2003).

**Eupatorium semiserratum.**—Although not mapped in Texas by Turner et al. (2003) nor by Siripum and Schilling (2006), plants matching the key characters and description in Siripum and Schilling (2006) are found in east Texas.

**Lechea minor.**—This is the first report of this species for Texas; details are to be provided in a future publication.

**Pluchea baccharis.**—An older name for *P. rosea*.

**Sarracenia alata.**—This species was introduced to the Lance Rosier Unit in the 1960s or

1970s where it has thrived. It occurs naturally and is common in other parts of the Big Thicket region.

**Soliva anthemifolia.**—This name replaces *S. mutisii* in Flora of North America volume 19.

**Spiranthes longilabris.**—This globally rare (G3) species was once on the Texas rare plant list (Pool et al. 2002; Wildlife Diversity Program 2004). In Texas, it occurs in wetland pine savannas only in Hardin and Newton Counties (Liggio & Liggio 1999).

**Vicia hirsuta.**—Jerry Flook (1975) reported this introduced legume from Shelby County and Turner et al. (2003) mapped it only in this county. It is a frequent weed near the site of the former Teel residence along the road to Little Pine Island Bayou.

#### DISCUSSION

There are 114 families (113 native) and 352 genera (311 native) for the 694 taxa (612 native) on the Lance Rosier Unit list. Ten percent of the taxa are non-native. Eight families: Poaceae (96 taxa), Cyperaceae (87 taxa), Asteraceae (84 taxa), Fabaceae (38 taxa), Scrophulariaceae (19 taxa), Onagraceae (16 taxa), Rosaceae (15 taxa), Euphorbiaceae (15 taxa), and Rubiaceae (14 taxa), account for 56 % of the taxa collected. The largest genera are *Carex* (31 taxa), *Dichanthelium* (21 taxa), *Rhynchospora* (19 taxa), *Cyperus* (15 taxa), *Quercus* (15 taxa), and *Juncus* (12 taxa).

We compared the present list of species for Lance Rosier Unit with a sample of the species reported by Turner et al. (2003) in their *Atlas of the Vascular Plants of Texas* and found that only 74% of the species on the Lance Rosier Unit list are reported as occurring in Hardin County in that source. This is not surprising considering that, until recently, little focused collecting has been undertaken in the Big Thicket region. Basic floristic collecting and documenting in the Big Thicket region are still needed.

While it is the case that our list is incomplete, as are all floras, and a few taxa reported here may no longer exist on the unit. Most taxa that have grown in the Lance Rosier Unit during the past quarter century have been collected (probably 85+ %). We estimate that the Lance Rosier Unit has about 620 to 705 native species/taxa.

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